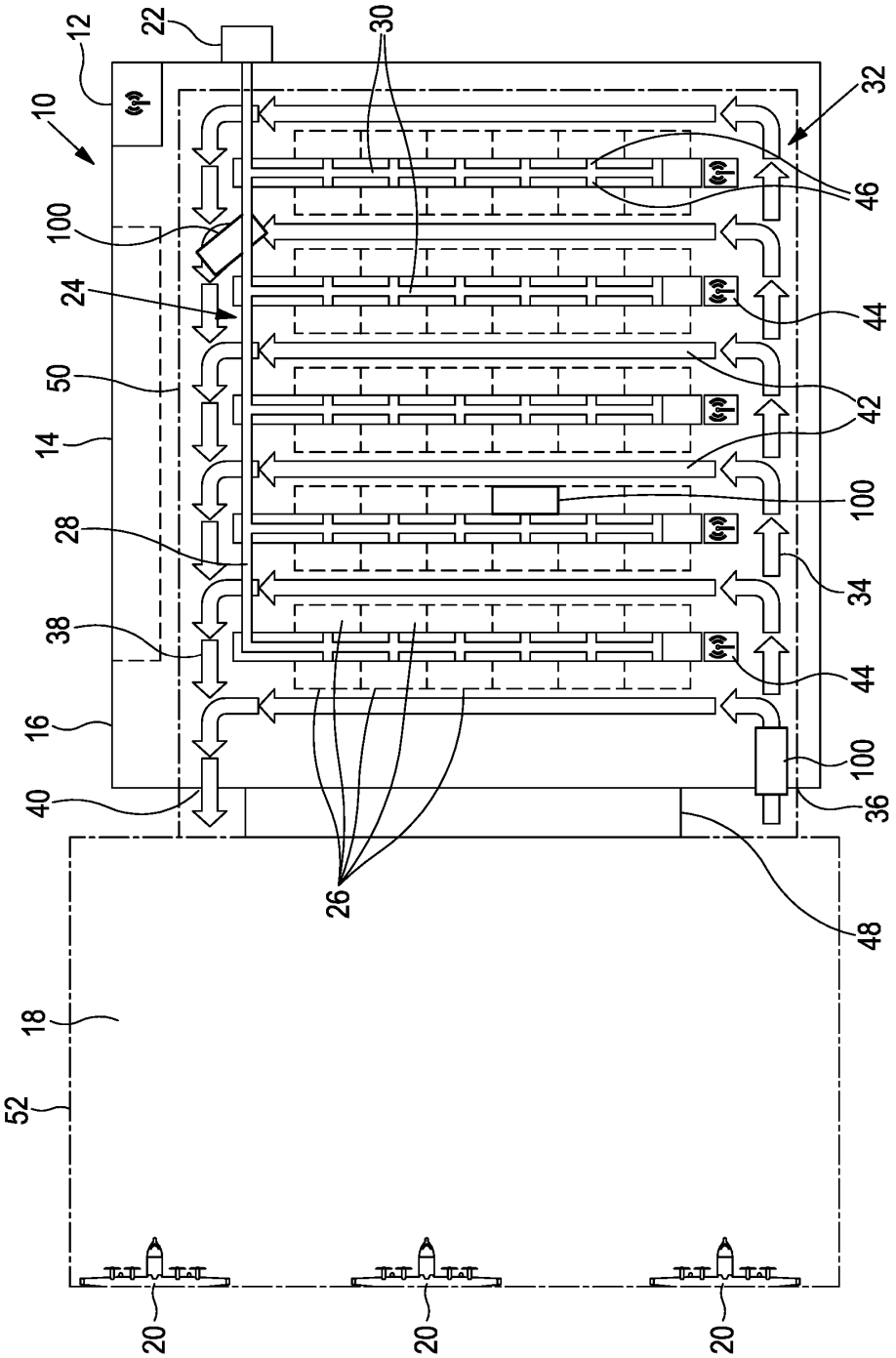

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20

Figure 1

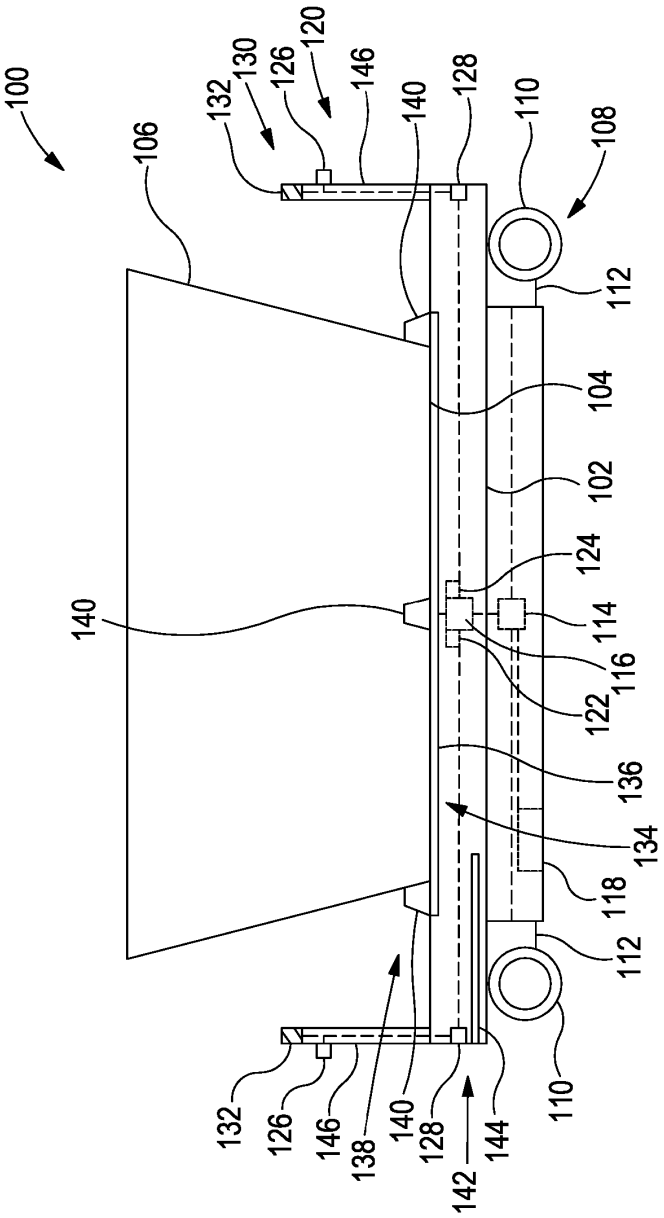

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Figure 2

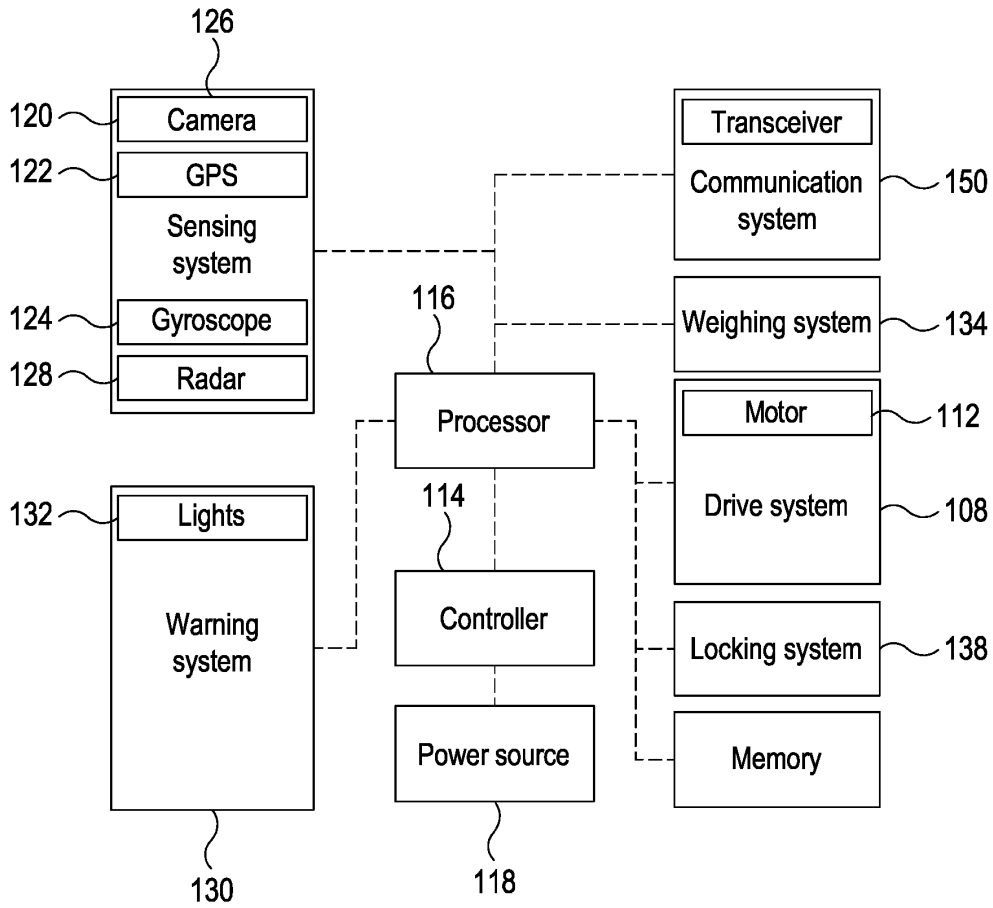

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Camera
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GPS
Sensing system
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Gyroscope
128
Radar
116
Processor
114
Controller
Power source
118
132
Lights
Warning system
130
Transceiver
Communication system
150
Weighing system
134
Motor
112
Drive system
108
Locking system
138
Memory

Figure 3

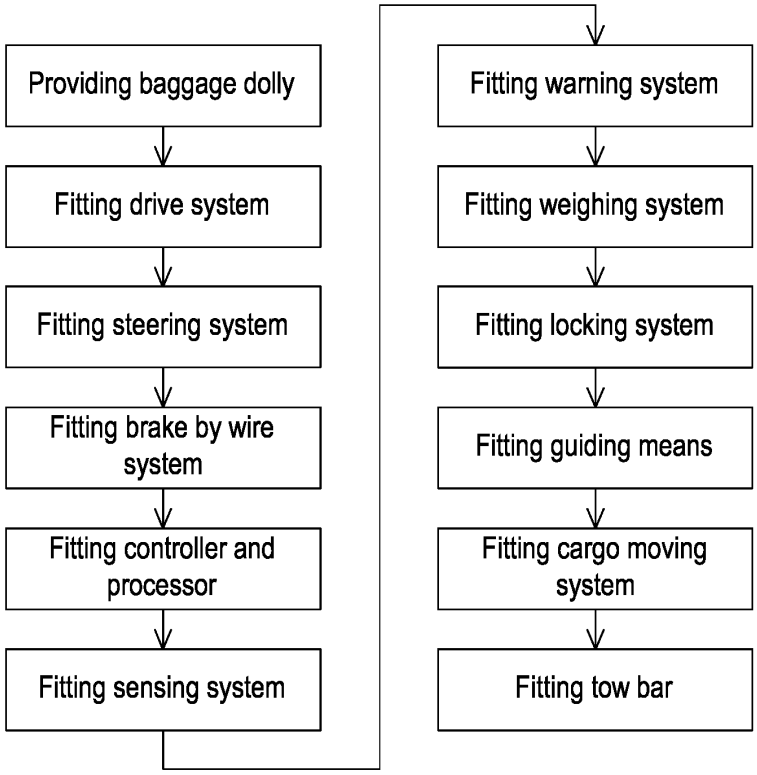


Figure 4

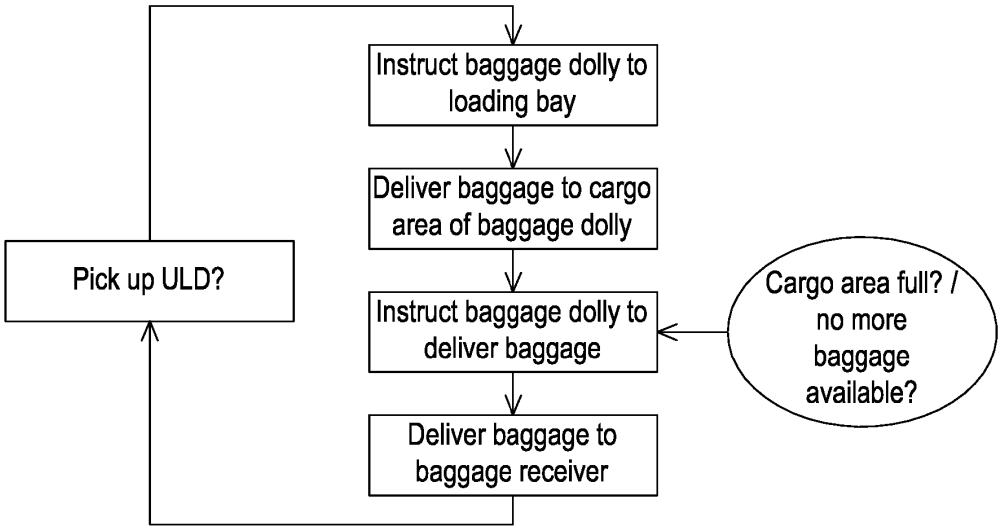


Figure 5

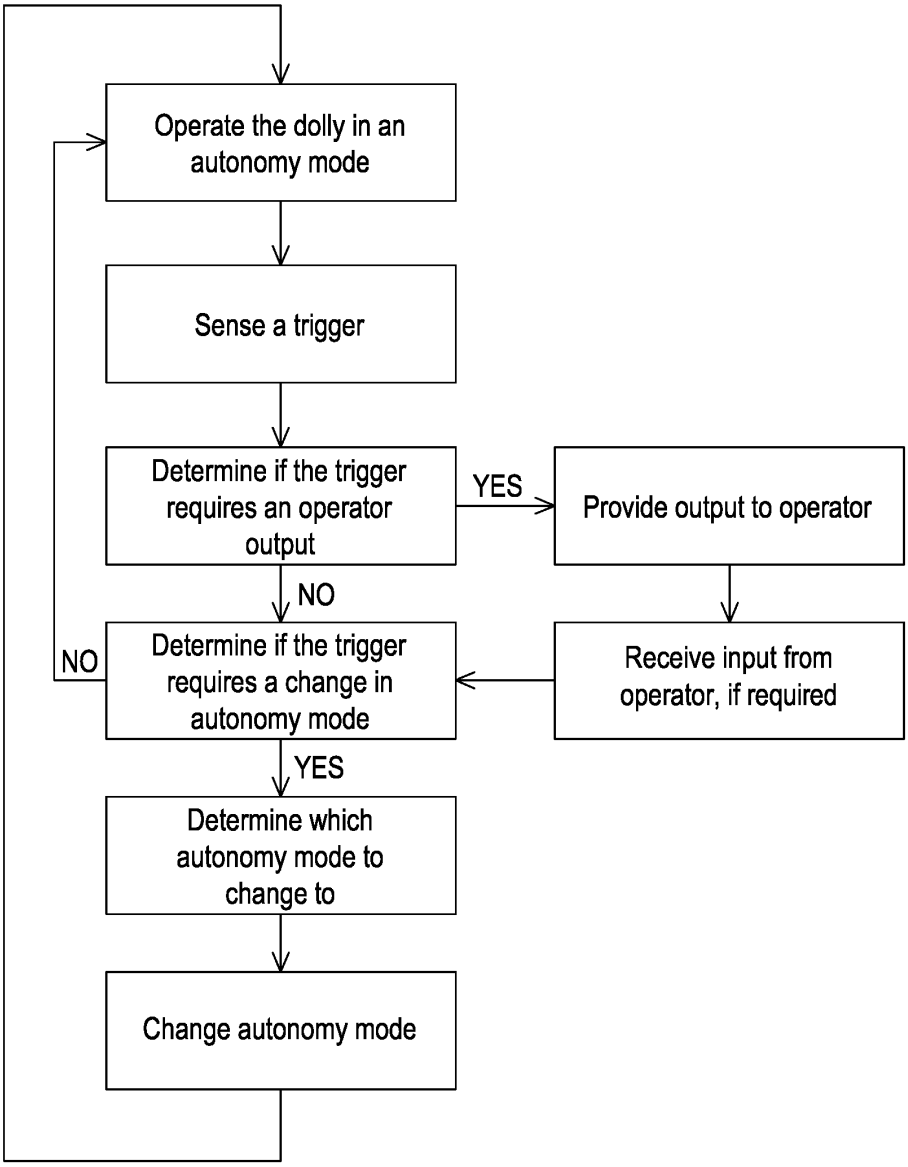

Operate the dolly in an autonomy mode
Sense a trigger
Determine if the trigger requires an operator output
YES
Provide output to operator
NO
Receive input from operator, if required
NO
Determine if the trigger requires a change in autonomy mode
YES
Determine which autonomy mode to change to
Change autonomy mode

Figure 6

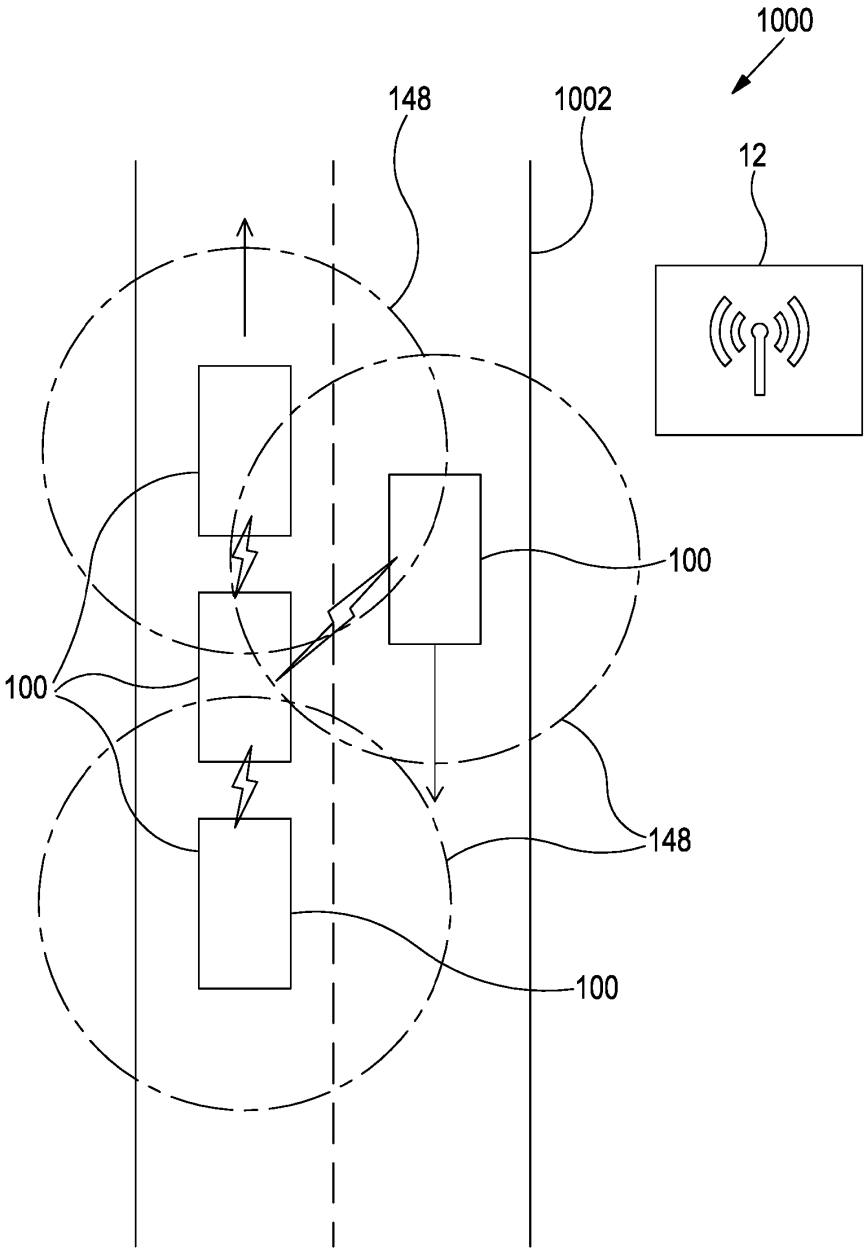


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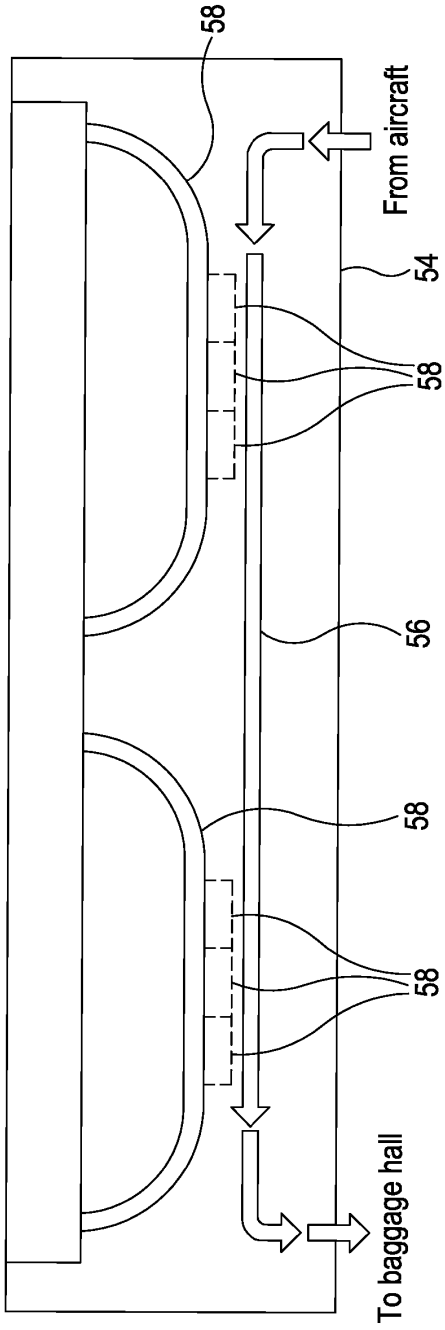


Figure 8

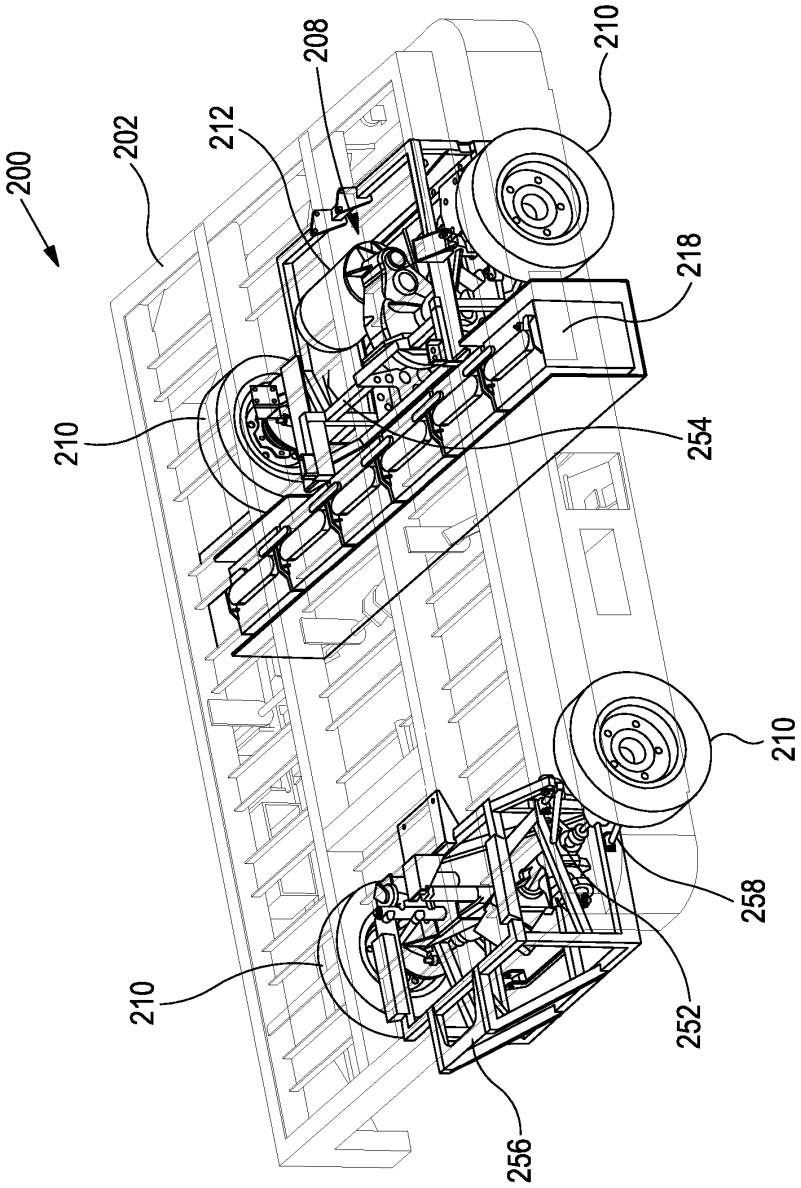


Figure 9

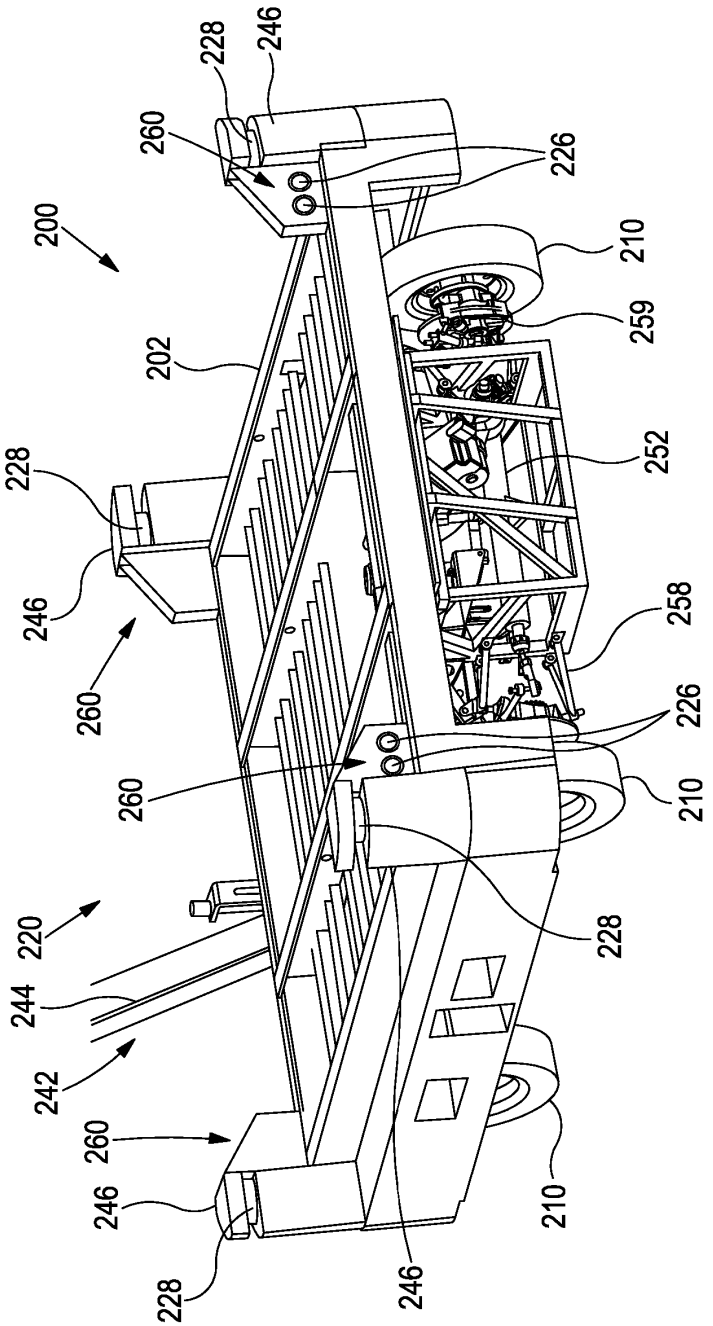

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246

Figure 10

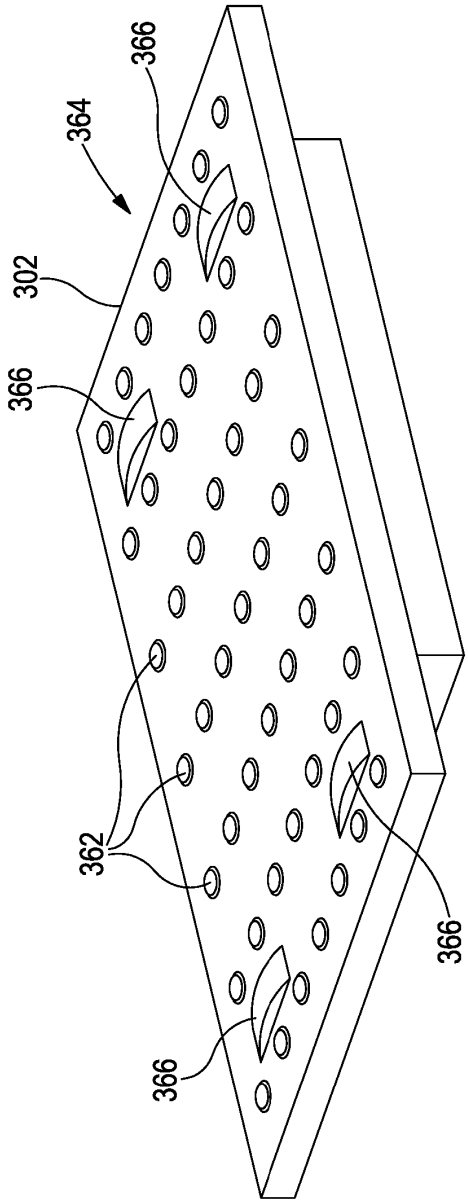


Figure 11

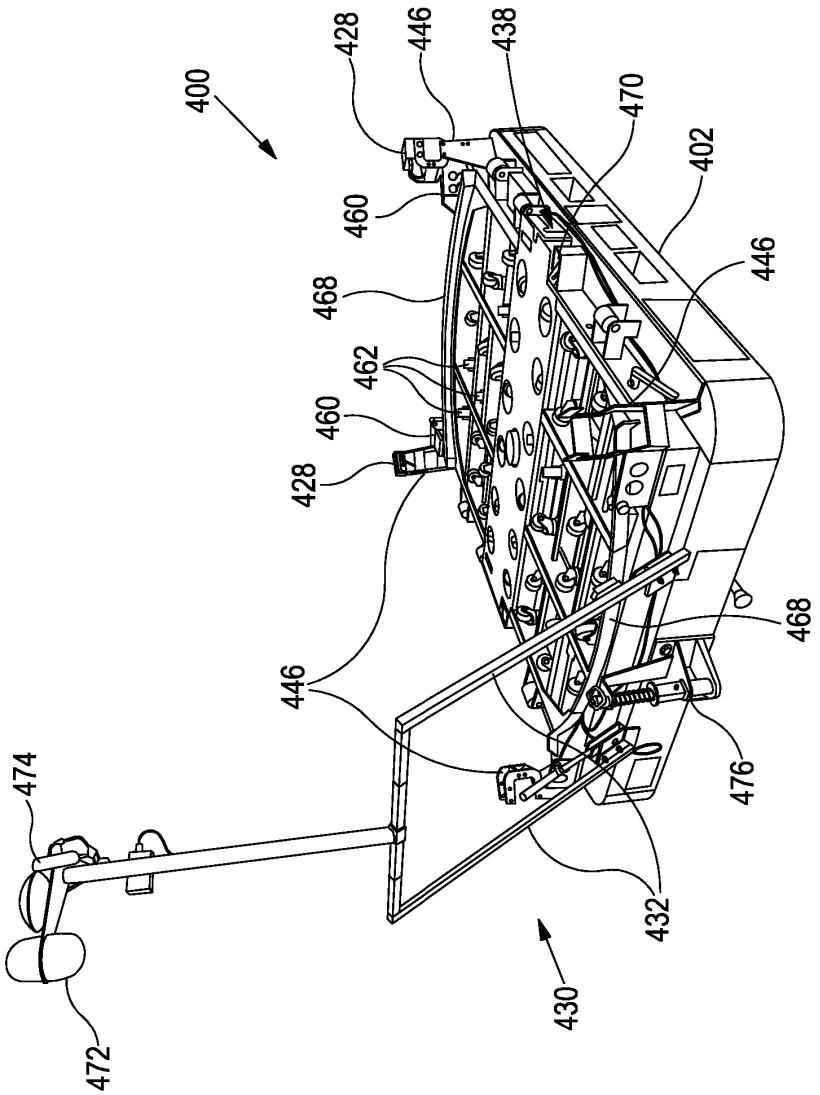

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Figure 12

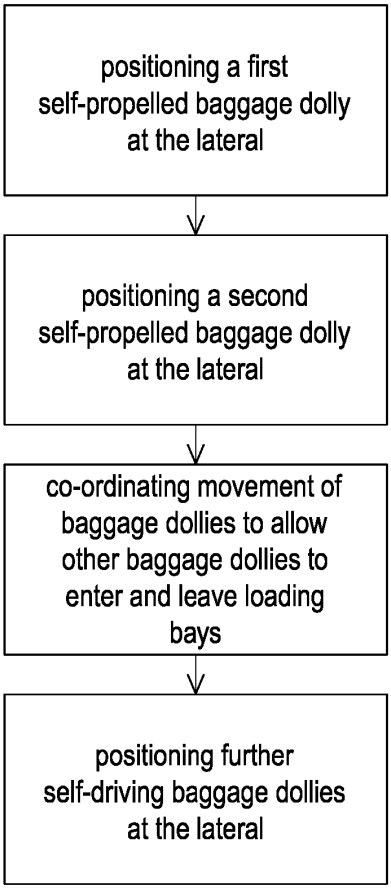


Figure 13

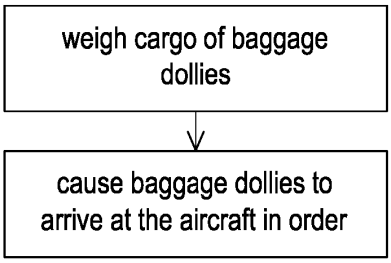


Figure 14

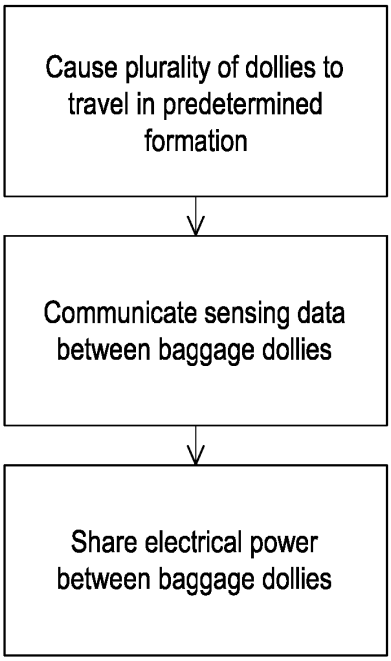

Cause plurality of dollies to travel in predetermined formation
Communicate sensing data between baggage dollies
Share electrical power between baggage dollies

Figure 15

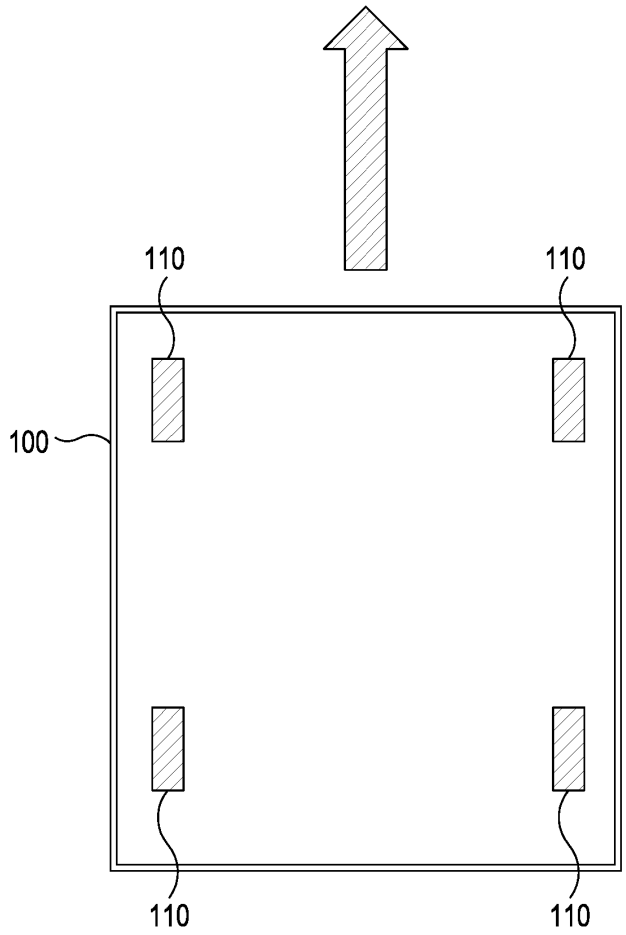


Figure 16

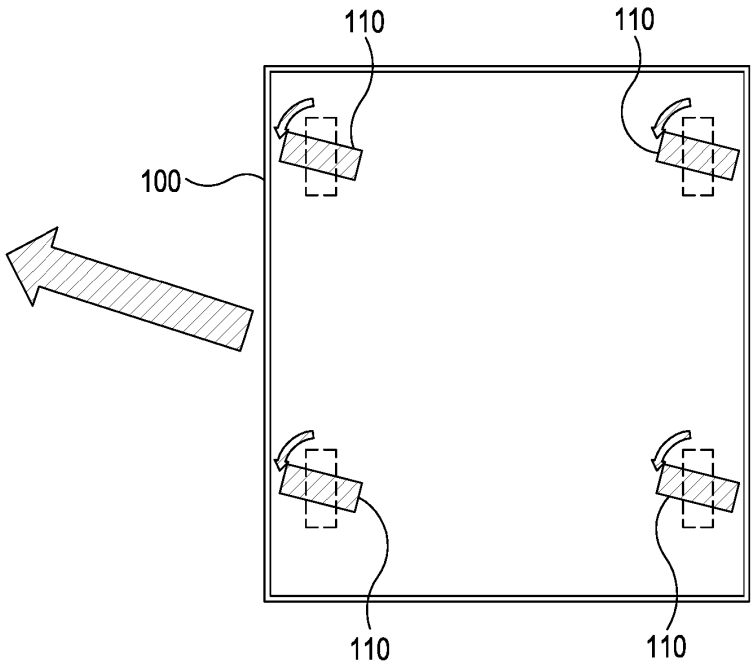


Figure 17

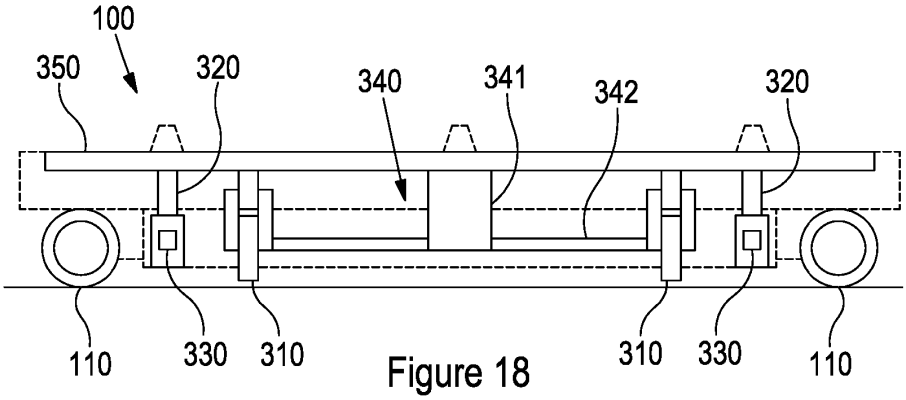


Figure 18

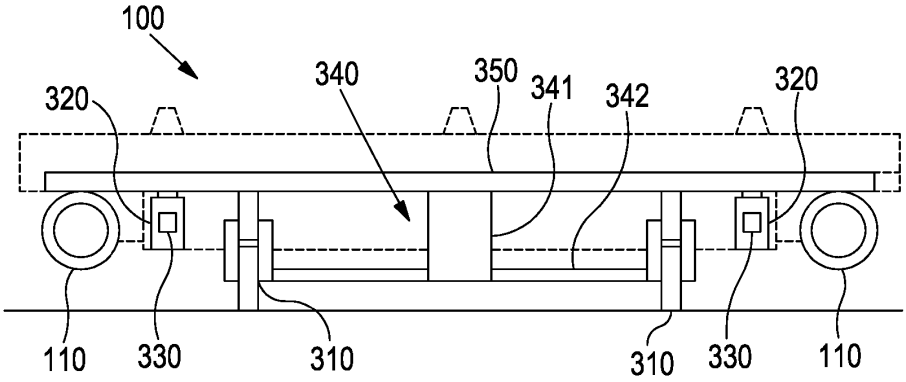


Figure 19

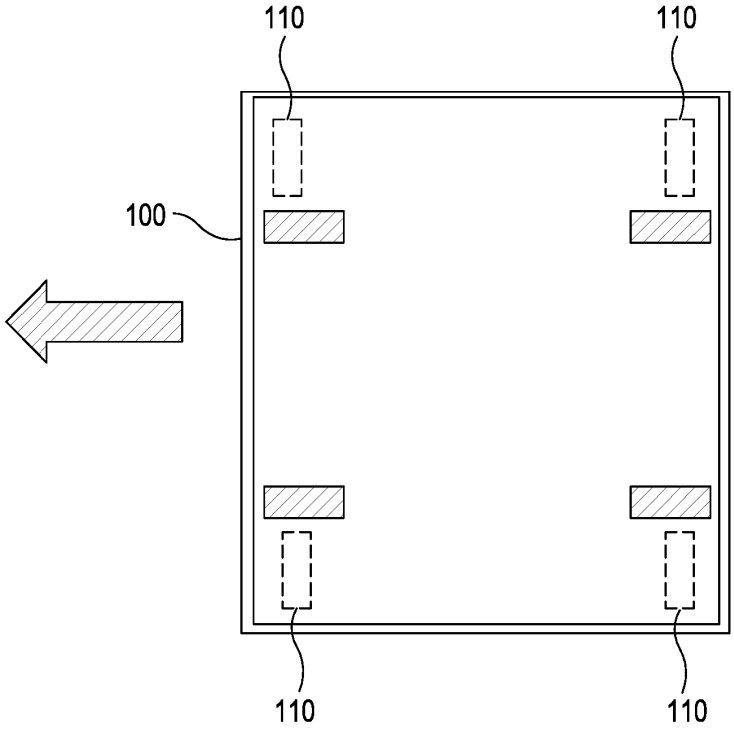


Figure 20

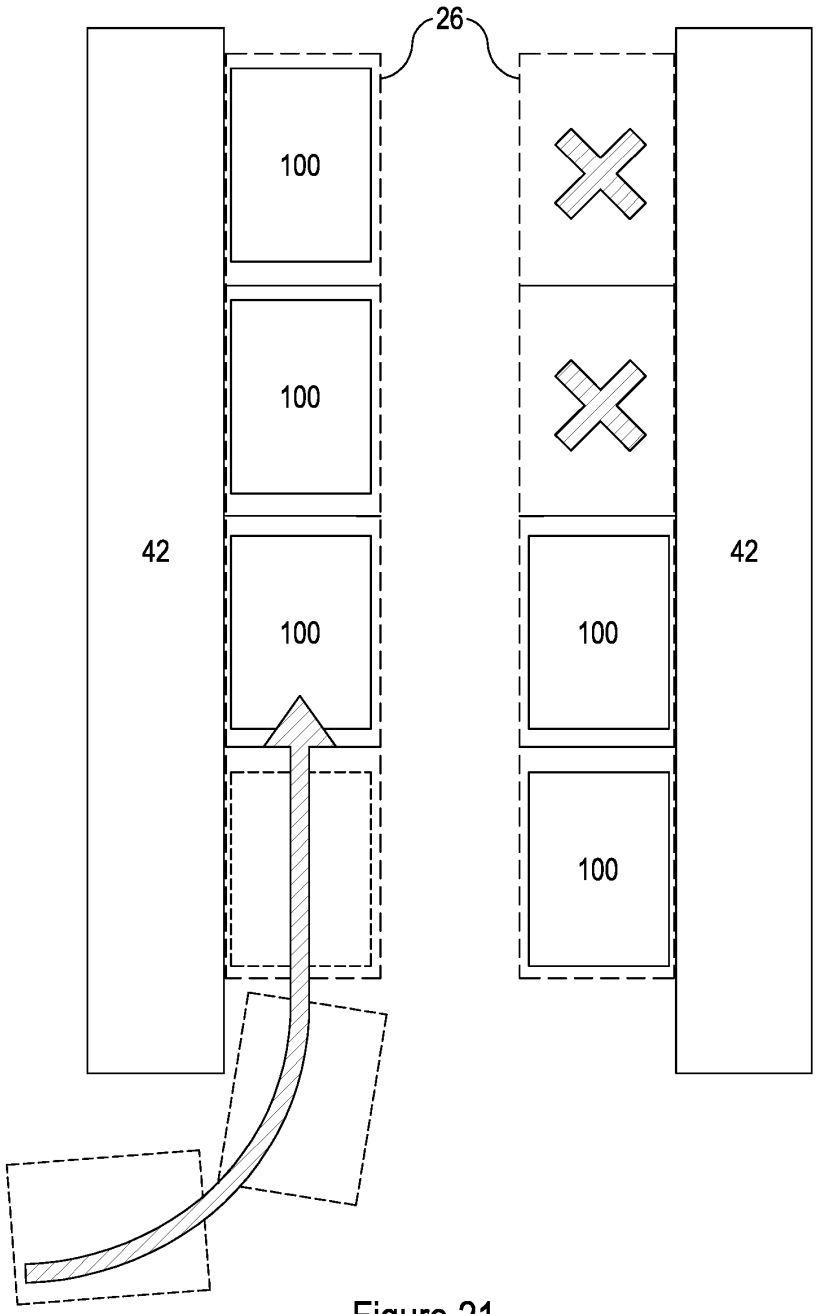


Figure 21

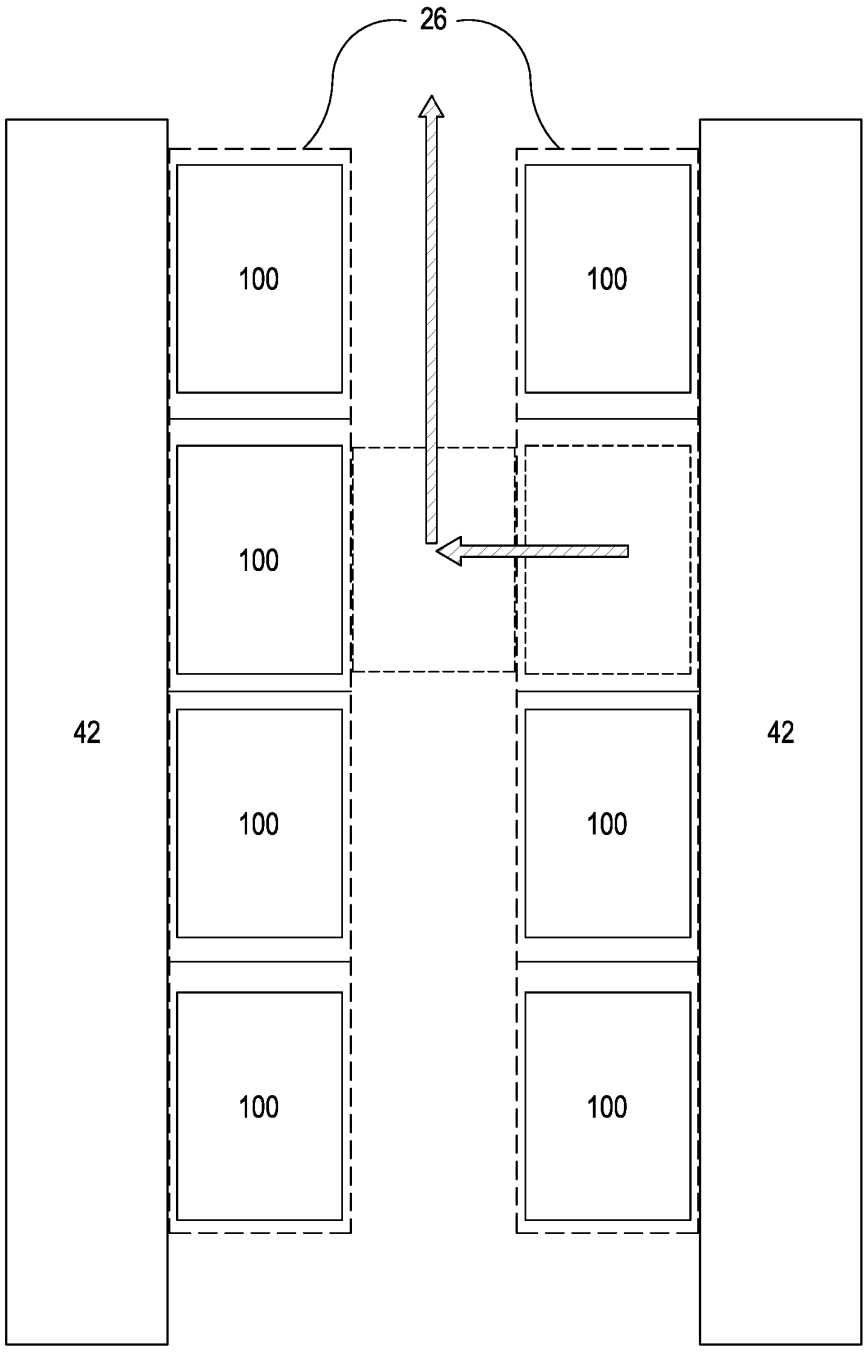


Figure 22

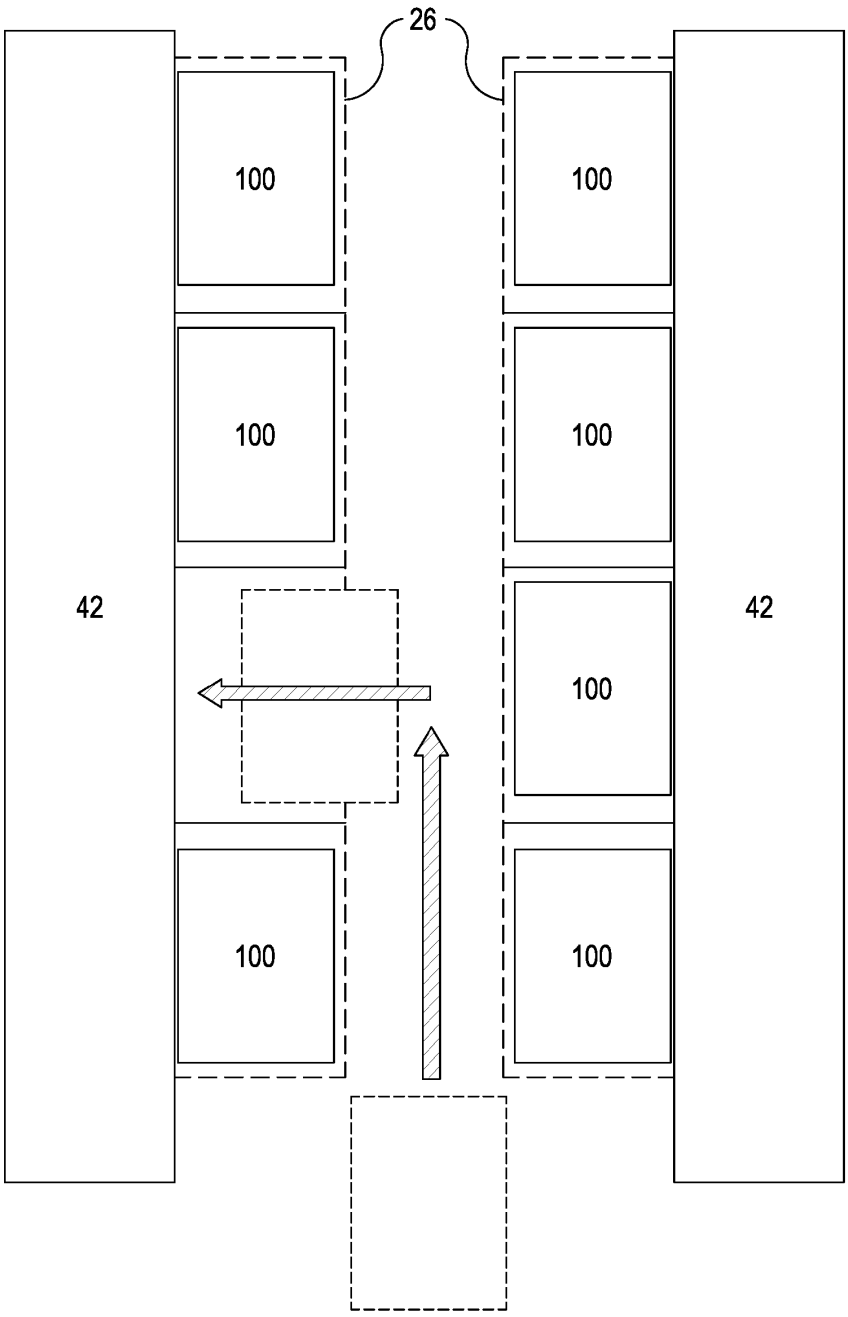


Figure 23

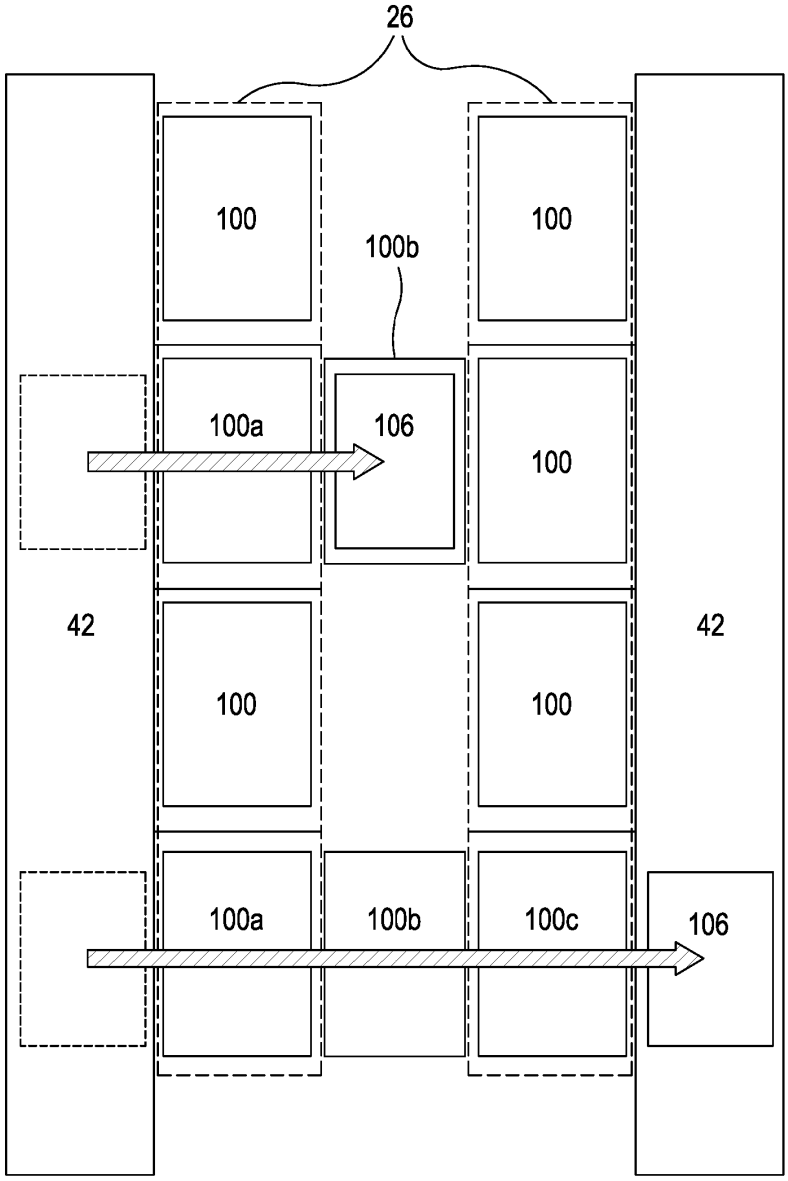


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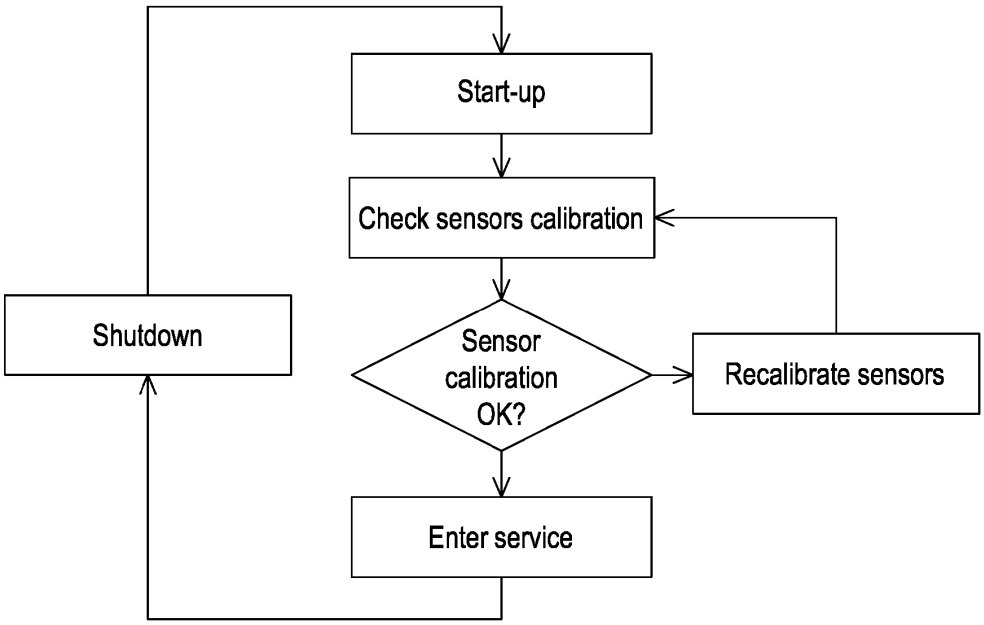

Start-up
Check sensors calibration
Shutdown
Sensor calibration OK?
Recalibrate sensors
Enter service

Figure 25

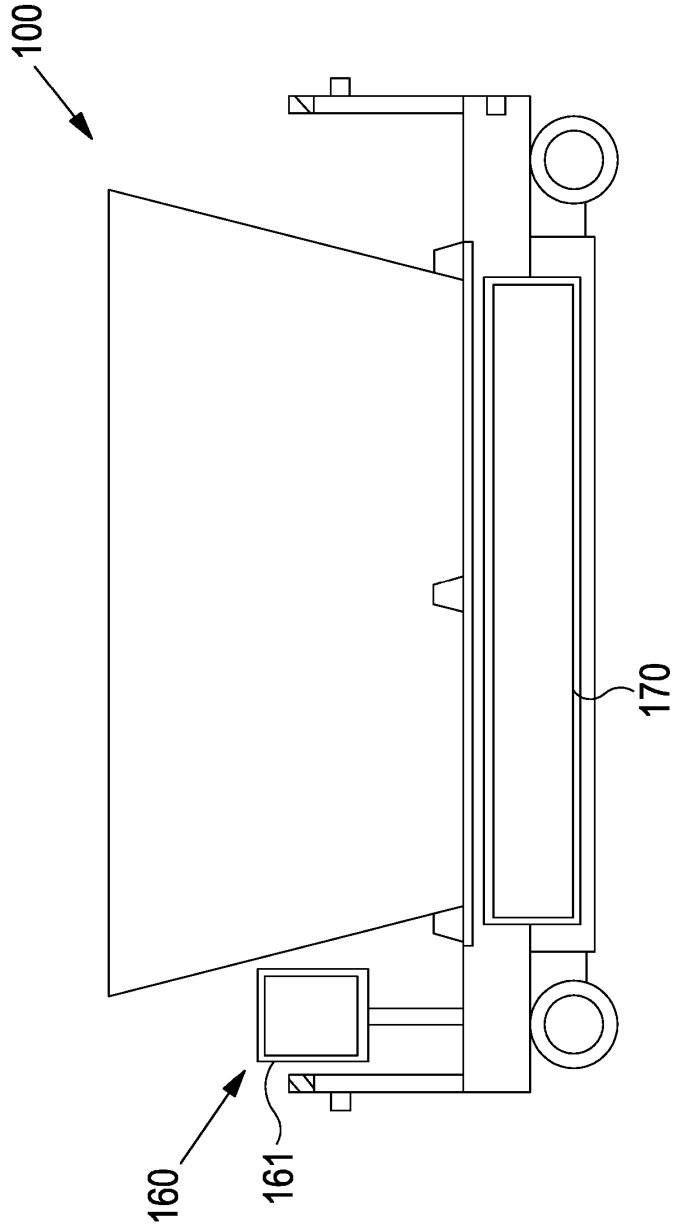


Figure 26